AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Canceled)

2. (Currently Amended) A method of controlling call admission in a communications network, comprising:

calculating an initial load level as a function of at least one of a difference between a current measured power and a previous measured power and a difference between a current number of users and a previous number of users; and

controlling call admission based on the calculated load level, wherein said calculating step recursively calculates updated load levels.

3. (Currently Amended) A method of controlling call admission in a communications network, comprising:

calculating an initial load level as a function of at least one of a difference between measured powers over time and a difference between a number of users over time; and

controlling call admission based on the calculated load level, wherein said calculating step estimates the initial load level as a function of a measured difference between powers over time and a difference between the number of users over time.

4. (Currently Amended) The method of claim 3, wherein said calculating step estimates the initial load level, L_{new}, by solving:

$$L_{new}(N_{new,}P_{new}) = \frac{N_{new}\, x(P_{new} - P_{old})}{N_{new}\, x(P_{new} - P_{old}) + P_{old}\ x\,(N_{new} - N_{old})},$$

where N_{new} and N_{old} are current and previous number of users values respectively, and P_{new} and P_{old} are current and previous power measurements respectively.

5. (Currently Amended) A method of controlling call admission in a communications network, comprising:

calculating an initial load level as a function of at least one of previous and current measured powers ~~or~~ and previous and current number of users; and

controlling call admission based on the calculated load level,

wherein said calculating step recursively updates the calculated load level as a function of previous and current number of users.

6. (Currently Amended) A method of controlling call admission in a communications network, comprising:

calculating an initial load level as a function of at least one of measured powers ~~or~~ and previous and current number of users; and

controlling call admission based on the calculated load level,

wherein said calculating step recursively updates the calculated load level as a function of previous and current measured powers.

7. (Currently Amended) The method of claim 5, wherein said calculating step ~~estimates~~ recursively updates the calculated load level, L_{new}, by solving:

$$L_{new} = L_{old}\ x\ \frac{N_{new}}{N_{old}},$$

where L_{old} is a previously calculated load level, and N_{new} and N_{old} are current and previous number of users values respectively.

8. (Currently Amended) The method of claim 6, wherein said calculating step ~~estimates~~ recursively updates the calculated load level, L_{new}, by solving:

$$L_{new} = 1 - \frac{P_{old}}{P_{new}} x\,(1 - L_{old}),$$

where L_{old} is a previously calculated load level, and P_{new} and P_{old} are current and previous power measurements respectively.

9. (Currently Amended) The method of claim 6, further comprising:

verifying ~~a~~ the calculated load level before using the calculated load level in said controlling step.

10. (Original) The method of claim 9, wherein said verifying step calculates an estimated power measurement, $P_{new'}$, based on the calculated load level, L_{new}, by solving:

$$P_{new'} = \frac{P_{old}\,(1 - L_{old})}{(1 - L_{new})},$$

where P_{old} is a previous power measurement and L_{old} is a previously calculated load level, said verifying step comparing $P_{new'}$ with an actual power measurement, P_{new}, to determine whether L_{new} is reasonably accurate.

11. (Currently Amended) The method of claim 10, wherein, when said verifying step indicates that the $P_{new'}$ is not sufficiently close to P_{new}, said calculating step ~~calculates~~ recursively updates the calculated load level, L_{new} by solving:

$$L_{new} = 1 - \frac{P_{old}}{P_{new}} x\,(1 - L_{old})\,.$$

12. (Canceled)

13. (Currently Amended) A system of controlling call admissions in a communications network, comprising:

load calculating means for calculating an initial load level as a function of at least one of previous and current measured powers ~~or~~ and previous and current number of users; and

control means for controlling call admission based on the calculated load level,

wherein said load calculating means recursively ~~calculates updated~~ updates the calculated load levels.

14. (Currently Amended) A system of controlling call admissions in a communications network, comprising:

load calculating means for calculating an initial load level as a function of at least one of a difference between measured powers over time and a difference between a number of users over time; and

control means for controlling call admission based on the calculated load level~~,~~

~~wherein said load calculating means estimates load level as a function of a difference between measured powers over time and a difference between the number of users over time~~.

15. (Currently Amended) The system of claim 14, wherein said load calculating means estimates the initial load level, L_{new}, by solving:

$$L_{new}(N_{new,}P_{new}) = \frac{N_{new}\,x(P_{new} - P_{old})}{N_{new}\,x(P_{new} - P_{old}) + P_{old}\;x\,(N_{new} - N_{old})}\,,$$

where N_{new} and N_{old} are the current and previous number of users values respectively, and P_{new} and P_{old} are the current and previous power measurements respectively.

16. (Currently Amended) A system of controlling call admissions in a communications network, comprising:

load calculating means for calculating an initial load level as a function of at least one of previous and current measured powers ~~or~~ and previous and current number of users; and

control means for controlling call admission based on the calculated load level,

wherein said load calculating means recursively updates the calculated load level as a function of previous and current number of users.

17. (Currently Amended) A system of controlling call admissions in a communications network, comprising:

load calculating means for calculating a initial load level as a function of previous and current measured powers ~~or~~ and previous and current number of users; and

control means for controlling call admission based on the calculated load level,

wherein said load calculating means recursively updates the calculated load level as a function of previous and current measured powers.

18. (Currently Amended) The system of claim 16, wherein said load calculating means ~~estimates~~ recursively updates the calculated load level, L_{new}, by solving:

$$L_{new} = L_{old}\ x\ \frac{N_{new}}{N_{old}},$$

where L_{old} is a previously calculated load level, and N_{new} and N_{old} are current and previous number of users values respectively.

19. (Currently Amended) The system of claim 17, wherein said load calculating means ~~estimates~~ recursively updates the calculated load level, L_{new}, by solving:

$$L_{new} = 1 - \frac{P_{old}}{P_{new}} x\,(1 - L_{old}),$$

where L_{old} is a previously calculated load level, and P_{new} and P_{old} are current and previous received power measurements respectively.

20. (Currently Amended) The system of claim 17, further comprising:

verifying means for verifying ~~a~~ the calculated load level before said control means uses the calculated load level.

21. (Original) The system of claim 20, wherein said verifying means calculates an estimated power measurement, $P_{new'}$, based on the calculated load level, L_{new}, by solving:

$$P_{new'} = \frac{P_{old}(1 - L_{old})}{(1 - L_{new})},$$

where P_{old} is a previous power measurement and L_{old} is a previously calculated load level, said verifying means comparing $P_{new'}$ with an actual power measurement P_{new} to determine whether L_{new} is reasonably accurate.

22. (Currently Amended) The system of claim 21, wherein, when said verifying means indicates that the $P_{new'}$ is not sufficiently close to P_{new}, said calculating means ~~calculates~~ recursively updates the calculated load level L_{new} by solving:

$$L_{new} = 1 - \frac{P_{old}}{P_{new}} x\,(1 - L_{old}).$$

23. (Previously Presented) the system of claim 13, further comprising:

input means for receiving power measurements and number of user values.

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Canceled)

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